Author Index

Agli, B., see Lacasa, D. (1136) 99
Ahlemeyer, B., Weintraut, H. and Schoner, W.
Chick embryo heart cells with high and low intracellular calcium concentrations respond differently to ouabain (1136) 91
Aiken, N.R., Satterlee, J.D. and Galey, W.R.
Measurement of intracellular Ca^{2+} in young and old human erythrocytes using ^{19}F-NMR spectroscopy (1136) 155
Allan, D.J., see Johnson, C.A. (1136) 1

Bai, H., Orlando, J. and Seyfried, T.N.
Altered ganglioside composition in virally transformed rat embryo fibroblasts (1136) 23
Balasubramaniam, A., see Sheriff, S. (1136) 219
Balsinde, J., Fernández, B., Solís-Herruzo, J.A. and Diez, E.
Pathways for arachidonic acid mobilization in zymosan-stimulated mouse peritoneal macrophages (1136) 75
Bareyal-Leyser, A., see Mitchell, J.L.A. (1136) 136
Becher dos Passos, J., Vanhalewyn, M., Lopes Brandão, R., Castro, I.M., Nicoli, J.R. and Thevelein, J.M.
Glucose-induced activation of plasma membrane H^+-ATPase in mutants of the yeast *Saccharomyces cerevisiae* affected in cAMP metabolism, cAMP-dependent protein phosphorylation and the initiation of glycolysis (1136) 57
Béliveau, R., see Gingras, D. (1136) 150
Benndorf, R., Hayeß, K., Stahl, J. and Bielka, H.
Cell-free phosphorylation of the murine small heat-shock protein hsp25 by an endogenous kinase from Ehrlich ascites tumor cells (1136) 203
Berry, M.N., Phillips, J.W., Gregory, R.B., Grivell, A.R. and Wallace, P.G.
Operation and energy dependence of the reducing-equivalent shuttles during lactate metabolism by isolated hepatocytes (1136) 223
Bielka, H., see Benndorf, R. (1136) 203
Birckbichler, P.J., see Lee, K.N. (1136) 12
Blevins Jr., G.T., see Yule, D.I. (1136) 175
Boyan, B.D., see Swain, L.D. (1136) 45
Brooks, E.J., see Weiss, J. (1136) 208

Castillo, G.M. and Templeton, D.M.
Structure and metabolism of multiple heparan sulphate proteoglycans synthesized by the isolated rat glomerulus (1136) 119
Castro, I.M., see Becher dos Passos, J. (1136) 57
Chabert, M.G., Niedergang, C.P., Hog, F., Partisani, M. and Mandel, P.
Poly(ADPR)polymerase expression and activity during proliferation and differentiation of rat astrocyte and neuronal cultures (1136) 196
Chakravarthy, B.R., Tremblay, R., Macdonald, P., Krsmanovic, V., Whitfield, J.F. and Durkin, J.P.
The activation of inactive membrane-associated protein kinase C is associated with DMSO-induced erythroleukemia cell differentiation (1136) 83
Clark, C.J., Milligan, G., McLellan, A.R. and Connell, J.M.C.
Guanine nucleotide regulatory protein levels and function in spontaneously hypertensive rat vascular smooth-muscle cells (1136) 290
Connell, J.M.C., see Clark, C.J. (1136) 290
Conway, E., see Lee, K.N. (1136) 12
Cutler, Jr., R.E., see Weiss, J. (1136) 208

DeBuysere, M.S., see Gandhi, C.R. (1136) 68
DeManno, D.A., see Weiss, J. (1136) 208
Diez, E., see Balsinde, J. (1136) 75
Diveley Jr., R.R., see Mitchell, J.L.A. (1136) 136
Dixon, J.E., see Pot, D.A. (1136) 35
Dorn II, G.W., see Jones, C.L.A. (1136) 272
Durkin, J.P., see Chakravarthy, B.R. (1136) 83

Ellis, C.M., Ford, R.C. and Holzenburg, A.
Detergent sensitivity of the tonoplast H^+-ATPase and its purification from *Beta vulgaris* (1136) 319
Erlichman, J., see Weiss, J. (1136) 208

Feller, M.J., see Jones, C.L.A. (1136) 272
Fernández, B., see Balsinde, J. (1136) 75
Fischer, J.E., see Sheriff, S. (1136) 219
Ford, R.C., see Ellis, C.M. (1136) 319
Forster, T.H., see Johnson, C.A. (1136) 1
Franson, R.C., Harris, L.K., Ghosh, S.S. and Rosenthal, M.D.
Sphingolipid metabolism and signal transduction: inhibition of in vitro phospholipase activity by sphingosine (1136) 169
Fugman, D.A., see Jones, C.L.A. (1136) 272
Fujii, H. and Kakinuma, K.
Electron paramagnetic resonance studies on cytochrome *b*-558 and peroxidases of pig blood granulocytes (1136) 239

Galey, W.R., see Aiken, N.R. (1136) 155
Ganapathy, V., see Ramamoorthy, S. (1136) 181
Gandhi, C.R., DeBuysere, M.S. and Olson, M.S.
Platelet-activating factor-mediated synthesis of prostaglandins in rat Kupffer cells (1136) 68
García-Sáinz, J.A., see González-Espinosa, C. (1136) 309
Ghosh, S.S., see Franson, R.C. (1136) 169
Gingras, D. and Béliveau, R.
Guanine nucleotides stimulate carboxyl methylation of kidney cytosolic proteins (1136) 150
Giudicelli, Y., see Lacasa, D. (1136) 99
Gogoll, A., see Helander, A. (1136) 259
González-Espinosa, C. and García-Sáinz, J.A.
Angiotensin II and active phorbol esters induce proto-oncogene expression in isolated rat hepatocytes (1136) 309
Gregory, R.B., see Berry, M.N. (1136) 223
Grivell, A.R., see Berry, M.N. (1136) 223
Guan, Z., Stokes, B.T., Van Brocklyn, J. and Yates, A.J.
Gangliosides inhibit platelet-derived growth-factor-stimulated increases in intracellular calcium in Swiss 3T3 cells (1136) 315

Haber, R.S., see Weinstein, S.P. (1136) 302
Hara, T., see Itoh, K. (1136) 52
Harris, L.K., see Franson, R.C. (1136) 169
Hartmann, M. and Schrader, J.
Exo-protein kinase release from intact cultured aortic endothelial cells (1136) 189
Hayeß, K., see Benndorf, R. (1136) 203

Author Index

Agli, B., see Lacasa, D. (1136) 99
Ahlemeyer, B., Weintraut, H. and Schoner, W.
Chick embryo heart cells with high and low intracellular calcium concentrations respond differently to ouabain (1136) 91
Aiken, N.R., Satterlee, J.D. and Galey, W.R.
Measurement of intracellular Ca^{2+} in young and old human erythrocytes using ^{19}F-NMR spectroscopy (1136) 155
Allan, D.J., see Johnson, C.A. (1136) 1

Bai, H., Orlando, J. and Seyfried, T.N.
Altered ganglioside composition in virally transformed rat embryo fibroblasts (1136) 23
Balasubramaniam, A., see Sheriff, S. (1136) 219
Balsinde, J., Fernández, B., Solís-Herruzo, J.A. and Diez, E.
Pathways for arachidonic acid mobilization in zymosan-stimulated mouse peritoneal macrophages (1136) 75
Bareyal-Leyser, A., see Mitchell, J.L.A. (1136) 136
Becher dos Passos, J., Vanhalewyn, M., Lopes Brandão, R., Castro, I.M., Nicoli, J.R. and Thevelein, J.M.
Glucose-induced activation of plasma membrane H^+-ATPase in mutants of the yeast *Saccharomyces cerevisiae* affected in cAMP metabolism, cAMP-dependent protein phosphorylation and the initiation of glycolysis (1136) 57
Béliveau, R., see Gingras, D. (1136) 150
Benndorf, R., Hayeß, K., Stahl, J. and Bielka, H.
Cell-free phosphorylation of the murine small heat-shock protein hsp25 by an endogenous kinase from Ehrlich ascites tumor cells (1136) 203
Berry, M.N., Phillips, J.W., Gregory, R.B., Grivell, A.R. and Wallace, P.G.
Operation and energy dependence of the reducing-equivalent shuttles during lactate metabolism by isolated hepatocytes (1136) 223
Bielka, H., see Benndorf, R. (1136) 203
Birckbichler, P.J., see Lee, K.N. (1136) 12
Blevins Jr., G.T., see Yule, D.I. (1136) 175
Boyan, B.D., see Swain, L.D. (1136) 45
Brooks, E.J., see Weiss, J. (1136) 208

Castillo, G.M. and Templeton, D.M.
Structure and metabolism of multiple heparan sulphate proteoglycans synthesized by the isolated rat glomerulus (1136) 119
Castro, I.M., see Becher dos Passos, J. (1136) 57
Chabert, M.G., Niedergang, C.P., Hog, F., Partisani, M. and Mandel, P.
Poly(ADPR)polymerase expression and activity during proliferation and differentiation of rat astrocyte and neuronal cultures (1136) 196
Chakravarthy, B.R., Tremblay, R., Macdonald, P., Krsmanovic, V., Whitfield, J.F. and Durkin, J.P.
The activation of inactive membrane-associated protein kinase C is associated with DMSO-induced erythroleukemia cell differentiation (1136) 83
Clark, C.J., Milligan, G., McLellan, A.R. and Connell, J.M.C.
Guanine nucleotide regulatory protein levels and function in spontaneously hypertensive rat vascular smooth-muscle cells (1136) 290
Connell, J.M.C., see Clark, C.J. (1136) 290
Conway, E., see Lee, K.N. (1136) 12
Cutler, Jr., R.E., see Weiss, J. (1136) 208

DeBuysere, M.S., see Gandhi, C.R. (1136) 68
DeManno, D.A., see Weiss, J. (1136) 208
Diez, E., see Balsinde, J. (1136) 75
Diveley Jr., R.R., see Mitchell, J.L.A. (1136) 136
Dixon, J.E., see Pot, D.A. (1136) 35
Dorn II, G.W., see Jones, C.L.A. (1136) 272
Durkin, J.P., see Chakravarthy, B.R. (1136) 83

Ellis, C.M., Ford, R.C. and Holzenburg, A.
Detergent sensitivity of the tonoplast H^+-ATPase and its purification from *Beta vulgaris* (1136) 319
Erlichman, J., see Weiss, J. (1136) 208

Feller, M.J., see Jones, C.L.A. (1136) 272
Fernández, B., see Balsinde, J. (1136) 75
Fischer, J.E., see Sheriff, S. (1136) 219
Ford, R.C., see Ellis, C.M. (1136) 319
Forster, T.H., see Johnson, C.A. (1136) 1
Franson, R.C., Harris, L.K., Ghosh, S.S. and Rosenthal, M.D.
Sphingolipid metabolism and signal transduction: inhibition of in vitro phospholipase activity by sphingosine (1136) 169
Fugman, D.A., see Jones, C.L.A. (1136) 272
Fujii, H. and Kakinuma, K.
Electron paramagnetic resonance studies on cytochrome *b*-558 and peroxidases of pig blood granulocytes (1136) 239

Galey, W.R., see Aiken, N.R. (1136) 155
Ganapathy, V., see Ramamoorthy, S. (1136) 181
Gandhi, C.R., DeBuysere, M.S. and Olson, M.S.
Platelet-activating factor-mediated synthesis of prostaglandins in rat Kupffer cells (1136) 68
García-Sáinz, J.A., see González-Espinosa, C. (1136) 309
Ghosh, S.S., see Franson, R.C. (1136) 169
Gingras, D. and Béliveau, R.
Guanine nucleotides stimulate carboxyl methylation of kidney cytosolic proteins (1136) 150
Giudicelli, Y., see Lacasa, D. (1136) 99
Gogoll, A., see Helander, A. (1136) 259
González-Espinosa, C. and García-Sáinz, J.A.
Angiotensin II and active phorbol esters induce proto-oncogene expression in isolated rat hepatocytes (1136) 309
Gregory, R.B., see Berry, M.N. (1136) 223
Grivell, A.R., see Berry, M.N. (1136) 223
Guan, Z., Stokes, B.T., Van Brocklyn, J. and Yates, A.J.
Gangliosides inhibit platelet-derived growth-factor-stimulated increases in intracellular calcium in Swiss 3T3 cells (1136) 315

Haber, R.S., see Weinstein, S.P. (1136) 302
Hara, T., see Itoh, K. (1136) 52
Harris, L.K., see Franson, R.C. (1136) 169
Hartmann, M. and Schrader, J.
Exo-protein kinase release from intact cultured aortic endothelial cells (1136) 189
Hayeß, K., see Benndorf, R. (1136) 203

Helander, A. and Gogoll, A.
Mechanisms for plasma-mediated activation of human blood cell aldehyde dehydrogenase (1136) 259
Herve, M., see Wietzerbin, J. (1136) 105
Hog, F., see Chabert, M.G. (1136) 196
Holzenburg, A., see Ellis, C.M. (1136) 319
Hopkins, C., see White, S. (1136) 28
Hunzicker-Dunn, M., see Weiss, J. (1136) 208
Hwang, P.L.H.
Inhibitors of protein and RNA synthesis block the cytotoxic effects of oxygenated sterols (1136) 5

Itoh, K., Hara, T., Yamada, F. and Shibata, N.
Diphosphorylation of platelet myosin ex vivo in the initial phase of activation by thrombin (1136) 52

Jans, A.W.H., see Von Recklinghausen, I.R. (1136) 129
Johnson, C.A., Forster, T.H., Winterford, C.M. and Allan, D.J.
Hydroxyurea induces apoptosis and regular DNA fragmentation in a Burkitt's lymphoma cell line (1136) 1
Jones, C.L.A., Witte, D.P., Feller, M.J., Fugman, D.A., Dorn II, G.W. and Lieberman, M.A.
Response of a human megakaryocytic cell line to thrombin: Increase in intracellular free calcium and mitogen release (1136) 272

Kakinuma, K., see Fujii, H. (1136) 239
Kinne, R.K.H., see Von Recklinghausen, I.R. (1136) 129
Kinouchi, Y., see Sato, K. (1136) 231
Kondo, Y., see Majid, M.A. (1136) 283
Krsmanovic, V., see Chakravarthy, B.R. (1136) 83

Lacasa, D., Agli, B. and Giudicelli, Y.
Hormonal activation of the cGMP-inhibited low-K_m cyclic AMP phosphodiesterase of rat adipocytes from different sites: influence of ovariectomy (1136) 99
Lebourguais, O., see Wietzerbin, J. (1136) 105
Lee, K.N., Maxwell, M.D., Patterson, Jr., M.K., Birckbichler, P.J. and Conway, E.
Identification of transglutaminase substrates in HT29 colon cancer cells: use of 5-(biotinamido)pentylamine as a transglutaminase-specific probe (1136) 12
Leibach, F.H., see Ramamoorthy, S. (1136) 181
Lieberman, M.A., see Jones, C.L.A. (1136) 272
Lopes Brandão, R., see Becher dos Passos, J. (1136) 57

Macdonald, P., see Chakravarthy, B.R. (1136) 83
MacLeod, E.A., see Zakar, T. (1136) 161
Mahesh, V.B., see Ramamoorthy, S. (1136) 181
Majid, M.A., Okajima, F. and Kondo, Y.
Characterization of ATP receptor which mediates norepinephrine release in PC12 cells (1136) 283
Mandel, P., see Chabert, M.G. (1136) 196
Marx, J.J.M., see Voest, E.E. (1136) 113
Maxwell, M.D., see Lee, K.N. (1136) 12
McLellan, A.R., see Clark, C.J. (1136) 290
Miller, K., see White, S. (1136) 28
Milligan, G., see Clark, C.J. (1136) 290
Minguell, J.J., see Shirota, T. (1136) 17
Mitchell, J.L., see Mitchell, J.L.A. (1136) 136
Mitchell, J.L.A., Diveley Jr., R.R., Bareyal-Leyser, A. and Mitchell, J.L.
Abnormal accumulation and toxicity of polyamines in a difluoromethylornithine-resistant HTC cell variant (1136) 136
Miyamoto, H., see Sato, K. (1136) 231
Morita, I., see Ochi, H. (1136) 247
Motoyoshi, K., see Ohtsuki, T. (1136) 297
Murota, S.-i., see Ochi, H. (1136) 247

Nagata, N., see Ohtsuki, T. (1136) 297
Neijt, J.P., see Voest, E.E. (1136) 113
Nicoli, J.R., see Becher dos Passos, J. (1136) 57
Niedergang, C.P., see Chabert, M.G. (1136) 196

Ochi, H., Morita, I. and Murota, S.-i.
Mechanism for endothelial cell injury induced by 15-hydroperoxy-eicosatetraenoic acid, an arachidonate lipoxygenase product (1136) 247
Ohtsuki, T., Suzu, S., Nagata, N. and Motoyoshi, K.
A human osteoblastic cell line, MG-63, produces two molecular types of macrophage-colony-stimulating factor (1136) 297
Okajima, F., see Majid, M.A. (1136) 283
Okuda, M., Tokunaga, R. and Taketani, S.
Expression of haptoglobin receptors in human hepatoma cells (1136) 143
Olson, D.M., see Zakar, T. (1136) 161
Olson, M.S., see Gandhi, C.R. (1136) 68
Orlando, J., see Bai, H. (1136) 23

Pandol, S.J., see Perkins, P.S. (1136) 265
Partisani, M., see Chabert, M.G. (1136) 196
Patterson, Jr., M.K., see Lee, K.N. (1136) 12
Perkins, P.S. and Pandol, S.J.
Cholecystokinin-induced changes in polysome structure regulate protein synthesis in pancreas (1136) 265
Phillips, J.W., see Berry, M.N. (1136) 223
Pot, D.A. and Dixon, J.E.
A thousand and two protein tyrosine phosphatases (1136) 35

Ramamoorthy, S., Leibach, F.H., Mahesh, V.B. and Ganapathy, V.
Modulation of the activity of amino acid transport system L by phorbol esters and calmodulin antagonists in a human placental choriocarcinoma cell line (1136) 181
Rosenthal, M.D., see Franson, R.C. (1136) 169

Sanwal, B.D., see Weiss, J. (1136) 208
Sato, K., Yamaguchi, H., Miyamoto, H. and Kinouchi, Y.
Growth of human cultured cells exposed to a non-homogeneous static magnetic field generated by Sm-Co magnets (1136) 231
Satterlee, J.D., see Aiken, N.R. (1136) 155
Schoner, W., see Ahlemeyer, B. (1136) 91
Schrader, J., see Hartmann, M. (1136) 189
Schwartz, Z., see Swain, L.D. (1136) 45
Seyfried, T.N., see Bai, H. (1136) 23
Sharpe, P.T., see Shimeld, S.M. (1136) 253
Sheriff, S., Fischer, J.E. and Balasubramaniam, A.
Amylin inhibits insulin-stimulated glucose uptake in C_2C_{12} muscle cell line through a cholera-toxin-sensitive mechanism (1136) 219
Shibata, N., see Itoh, K. (1136) 52
Shimeld, S.M. and Sharpe, P.T.
Cell-surface changes induced by ectopic expression of the murine homeobox gene *Hox-3.3* (1136) 253
Shirota, T., Minguell, J.J. and Tavassoli, M.
Expression of chondroitin sulfate as a unique type of proteoglycan on the cell membrane of multipotential and committed hemopoietic progenitor cells (1136) 17
Solís-Herruzo, J.A., see Balsinde, J. (1136) 75
Stahl, J., see Benndorf, R. (1136) 203
Stokes, B.T., see Guan, Z. (1136) 315
Suzu, S., see Ohtsuki, T. (1136) 297
Swain, L.D., Schwartz, Z. and Boyan, B.D.
1,25-$(OH)_2D_3$ and 24,25-$(OH)_2D_3$ regulation of arachidonic acid turnover in chondrocyte cultures is cell maturation-specific and may involve direct effects on phospholipase A_2 (1136) 45

Taketani, S., see Okuda, M. (1136) 143
Tavassoli, M., see Shirota, T. (1136) 17
Templeton, D.M., see Castillo, G.M. (1136) 119
Thevelein, J.M., see Becher dos Passos, J. (1136) 57
Tokunaga, R., see Okuda, M. (1136) 143
Tran-Dinh, S., see Wietzerbin, J. (1136) 105
Tremblay, R., see Chakravarthy, B.R. (1136) 83
Trowbridge, I.S., see White, S. (1136) 28

Van Asbeck, B.S., see Voest, E.E. (1136) 113
Van Brocklyn, J., see Guan, Z. (1136) 315
Van Faassen, E., see Voest, E.E. (1136) 113
Vanhalewyn, M., see Becher dos Passos, J. (1136) 57
Voest, E.E., Van Faassen, E., Van Asbeck, B.S., Neijt, J.P. and Marx, J.J.M.
Increased hydrogen peroxide concentration in human tumor cells due to a nitroxide free radical (1136) 113
Von Recklinghausen, I.R., Kinne, R.K.H. and Jans, A.W.H.
Ammonium chloride-induced acidification in renal TALH SVE.1 cells monitored by ^{31}P-NMR (1136) 129

Wagner, A.C., see Yule, D.I. (1136) 175
Wallace, P.G., see Berry, M.N. (1136) 223
Weinstein, S.P. and Haber, R.S.
Differential regulation of glucose transporter isoforms by thyroid hormone in rat heart (1136) 302
Weintraut, H., see Ahlemeyer, B. (1136) 91
Weiss, J., DeManno, D.A., Cutler, Jr., R.E., Brooks, E.J., Erlichman, J., Sanwal, B.D. and Hunzicker-Dunn, M.
cAMP-dependent protein kinases in the rat testis: regulatory and catalytic subunit associations (1136) 208
White, S., Miller, K., Hopkins, C. and Trowbridge, I.S.
Monoclonal antibodies against defined epitopes of the human transferrin receptor cytoplasmic tail (1136) 28
Whitfield, J.F., see Chakravarthy, B.R. (1136) 83
Wietzerbin, J., Herve, M., Lebourguais, O. and Tran-Dinh, S.
Comparative study of the effects of amphotericin B on the glucose metabolism in *Saccharomyces cerevisiae* in K^+- and Na^+-rich media (1136) 105
Williams, J.A., see Yule, D.I. (1136) 175
Winterford, C.M., see Johnson, C.A. (1136) 1
Witte, D.P., see Jones, C.L.A. (1136) 272

Yamada, F., see Itoh, K. (1136) 52
Yamaguchi, H., see Sato, K. (1136) 231
Yates, A.J., see Guan, Z. (1136) 315
Yule, D.I., Blevins Jr., G.T., Wagner, A.C. and Williams, J.A.
Endothelin increases $[Ca^{2+}]_i$ in rat pancreatic acinar cells by intracellular release but fails to increase amylase secretion (1136) 175

Zakar, T., MacLeod, E.A. and Olson, D.M.
Glucocorticoid stimulation of amnion cell prostaglandin synthesis: suppression by protein kinase C inhibitors and independence of phorbol ester-sensitive protein kinase C (1136) 161